

Comparisons of Job Characteristics

Focus Occupation: [Locomotive Engineers \(53-4011\)](#)

Associated Occupation: [Rail Yard Engineers, Dinkey Operators, and Hostlers \(53-4013\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 96

Focus Occupation: Locomotive Engineers (53-4011)

Associated Occupation: Rail Yard Engineers, Dinkey Operators, and Hostlers (53-4013)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Transportation	4.6	16.6	13.9	< Expanded education and/or training may be required
Public Safety and Security	6.9	12.4	8.7	<< Extensive education and/or training may be required
Telecommunications	3.9	8.6	4.8	<< Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 87

Focus Occupation: Locomotive Engineers (53-4011)

Associated Occupation: Rail Yard Engineers, Dinkey Operators, and Hostlers (53-4013)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Operation and Control	5.4	12.3	13.6	> Skill level is likely sufficient
Operation Monitoring	6.6	12.0	13.3	> Skill level is likely sufficient
Quality Control Analysis	5.9	9.6	8.3	< A higher skill level may be required
Troubleshooting	4.5	8.0	7.1	< A higher skill level may be required
Repairing	3.4	6.9	1.9	<< Extensive development of skills in this area may be required
Equipment Selection	3.3	5.7	1.3	<< Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 83

Focus Occupation: Locomotive Engineers (53-4011)

Associated Occupation: Rail Yard Engineers, Dinkey Operators, and Hostlers (53-4013)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Far Vision	7.8	12.3	14.7	>	Current ability level is likely sufficient
Control Precision	6.6	12.2	14.4	>	Current ability level is likely sufficient
Reaction Time	4.8	11.6	14.4	>	Current ability level is likely sufficient
Response Orientation	4.0	11.4	13.6	>	Current ability level is likely sufficient
Visual Color Discrimination	6.4	11.1	8.8	<	Some improvement in abilities may be required
Auditory Attention	5.9	11.0	12.6	>	Current ability level is likely sufficient
Rate Control	3.8	10.3	11.5	>	Current ability level is likely sufficient
Spatial Orientation	2.7	9.2	7.3	<	Some improvement in abilities may be required
Gross Body Equilibrium	3.2	8.0	3.2	<<	Extensive improvement in abilities may be required
Peripheral Vision	2.2	6.5	7.4	>	Current ability level is likely sufficient
Sound Localization	2.2	6.1	5.4	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 98

Focus Occupation: Locomotive Engineers (53-4011)

Associated Occupation: Rail Yard Engineers, Dinkey Operators, and Hostlers (53-4013)

Work Activities	Exclusivity of Activity
Inspect railroad equipment	89
Monitor railroad vehicle or equipment operation	89
Operate locomotives, dinkey engines, or other rail vehicles	92
Perform safety inspections in transportation setting	62
Read switching order, train orders, or arrival or departure schedules	92
Receive instructions from traffic control personnel	92
Transport passengers or cargo	64
Understand railroad signals	89
Understand technical operating, service or repair manuals	6
Use two-way radio or mobile phone	42

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: n/a

Focus Occupation: Locomotive Engineers (53-4011)

Associated Occupation: Rail Yard Engineers, Dinkey Operators, and Hostlers (53-4013)

Tools and Technologies	Exclusivity
Tools and technology data is unavailable for one or both occupations.	

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.